Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-02-21-50 Date: 04-02-19
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division
Agency	:	Sri.U. Ramesh, No 12, 4th Cross, Samrose Colony, Chellasyakanahalli, R.T.Nagara (P), Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification. IS 4031 (Part 1,2,3,4,5, 6,11):1988 IS 4031 Part 1 DETERMISATION OF FINENESS BY DRY SIEVING, Clause 5.1 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 7 IS 4031 Part 3, Determination of Soundness, Clause 5.5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 7 IS 4031 Part 11,DETERMISATION OF DENSITY , Clause 6
Date of test	:	02-02-19
Environmental Conditions during test	:	Temperature 26°C Humidity 52%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	-
2	Fitness by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	1.5mm	Not more than 10 mm

Note

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Authorized Signatory
Quality Manager

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Format No: CPTP/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-02-21-50 Date: 02-03-19
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.U.Ramesh, NO:12, 4th Cross, Sunrise Colony, Opolanayakanahalli, R.T.Nagara (P), Banglore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-50** **Date: 04-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.U.Ramesh, N0:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagara (P), Banglore-560032.
Customer's Reference	:	BBMP/EE BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - I,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-50** **Date: 04-02-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	-
4	Bulk Density(Loose) (Kg/l)	1.42	-
5	Bulk Density(Compacted) (Kg/l)	1.48	-
6	Water Absorption(%)	0.21	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-02-21-50 Date: 04-02-19
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division
Agency	:	Sri.U.Ramesh, NO 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagara (P), Banglore-560032.
Customer Reference	:	BBMP/EE.BTP/WO.91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 (1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-02-21-50 Date: 04-02-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.55	-
6	Water Absorption(%)	0.27	-
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2019-02-21-50 **Date: 04-02-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.U.Ramesh, N0:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagara (P), Banglore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-02-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	209	224	22.4	77.6	60-95	75-100	85-100	95-100
4	1.18 mm	178	402	40.2	59.8	30-70	55-90	75-100	90-100
5	600 micron	201	603	60.3	39.7	15-34	35-59	60-79	80-100
6	300 micron	189	792	79.2	20.8	5-20	8-30	12-40	15-50
7	150 micron	138	930	93.0	7.0	0-10	0-10	0-10	0-15
8	Pan	70	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-02-21-50** **Date: 04-02-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.45	-
2	Specific Gravity	2.50	-
3	Material finer than 75 micron(%)	7.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	CP-2019-02-21-50 Date: 06-02-19
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagara (P), Banglore-560032
Customer's Reference	:	BBMP/EE/BTP/WC/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-02-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008; IS:1608-2005(RA 2011); IS 1599-2012.
Date of test	:	05-02-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-50 Date: 01/03/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No: 13 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.U Ramesh, No.12, 4th Cross, Sunrise County, Cholanayakanahalli, R.T Nagara (P), Banglore-560032.

Customer's Reference : BBMP/EE/BTP/WO/01/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-19

Customer ID : Culvert Bottom Slab Concrete.

Sample Type /Size : 150X150X150 mm

Sample grade/ Age : M25 (7 Days Compressive Strength)

Reference to BIS codes : IS: 516 - 1959: Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/03/2019

Sl. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.52 X 151.51 X 151.39	22654	8.582	539.7	23.8	22.8
2	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	150.61 X 150.00 X 149.11	22581	8.40*	511.1	22	
3	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	150.05 X 150.00 X 150.72	22507	8.8**	518.7	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-50** **Date: 01/03/2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 13 (Kogilu panchayat) in Vidyaranyapura Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Chikkajalamakkali, R.T.Nagara (P.), Banglore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type/Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959, Methods of Tests for Strength of Concrete Cl.5
Date of Test	:	01/03/2019

Sl No:	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	151.61 X 149.52 X 150.33	22551	8.582	524.7	23.0	22.9
2	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.53 X 149.93 X 151.20	22374	8.407	514.1	22.9	
3	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.85 X 149.70 X 149.89	22432	8.877	495.1	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 **Date: 01/03/2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kempegowda) in Vidyaranyapura Sub Division
Agency	:	Sri.C.Ramesh, No 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagara (P.), Bangalore-560032
Customer's Reference	:	BBMP/EE/HEP/WO/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 'Methods of Tests for Strength of Concrete'
Date of test	:	01/03/2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimensions of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.52 X 149.48 X 149.48	22380	8.582	516.2	23.1	23.6
2	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.76 X 149.27 X 150.04	22354	8.497	527.8	23.6	
3	Culvert Bottom Slab Concrete	M25	22/02/2019	01/03/2019	149.45 X 149.71 X 149.97	22424	8.577	533.0	23.8	

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Format No: CP/TR/1

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub-Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No-11 (Bascomunagara) in Vidyaranyapura Sub Division
Agency	:	Sri.S. Ramesh, No:12, 4th Cross, Sunrise Colony, Chokanyakanahalli, R.T.Nagara (P.o), Bangalore 560032.
Customer's Reference	:	BBMP/EE/BTP/WO/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150(X)150(X)150 mm
Sample grade/ Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516-1959 "Methods of Tests for Strength of Concrete CL5
Date of test	:	05.03.2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	151.83 X 151.20 X 149.38	22958	8.582	534.2	23.4	22.7
2	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	151.80 X 150.23 X 150.28	22805	8.467	509.0	22.4	
3	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	149.52 X 150.00 X 150.51	22431	8.577	503.3	22.4	

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Format No: CP TF 11

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-50 Date: 05/03/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Banglore.

Project Name : Extension of Major Culverts at Singapura Main Road Near Ward Office in Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division

Agency : Sri.C.Ramesh, No.12, 8th Cross, Sunrise Colony, Chokkanayakanahalli, K.T.Nagara (P.O) Bangalore-560032

Customer's Reference : BBMP/EE/VP/WO-91/2017-18.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-02-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 'Methods of Tests for Strength of Concrete CP

Date of test : 05/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm²)	(N/mm²)
1	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	149.89 X 149.40 X 151.13	22435	8.582	525.0	23.5	23.6
2	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	150.93 X 149.02 X 151.25	22497	8.467	531.0	23.6	
3	Culvert Side Wall Concrete	M25	26/02/2019	05/03/2019	149.91 X 149.34 X 151.41	22394	8.6**	527.0	23.5	

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R KARTHIK RECHAN
Authorised Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY
GEO TECHNICAL PROJECT MANAGEMENT

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 Date: 12/03/2019
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 11 (Kotteppanapalya) in Vidyaranyapura Sub Division
Agency	:	Sri C Ramesh, No 12, 4th Cross, Sunrise Colony, Cholurmyakanahalli, R T Nagara (P), Banglore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07/03/19
Customer ID	:	Culvert Top Slab Concrete
Sample Type /Size	:	150X150X150 (mm)
Sample grade Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959: Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm²)	N/mm²
1	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	149.25 X 150.28 X 151.80	22420	8.582	535.3	23.9	23.1
2	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	149.60 X 149.79 X 150.44	22408	8.407	505.9	22.6	
3	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	149.07 X 151.71 X 149.54	22605	8.8**	522.2	22.7	

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Authorized Signatory
Quality Manager

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Format No: CPTT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 Date: 12/03/2019
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office In Ward No: 11 (Kuvempunagar) In Vidyaranyapura Sub Division.
Agency	:	Sri.C.Ramesh, No:12, 4th Cross, Sarathe Colony, Chokkanayakanahalli, RT Nagara (P.O), Bangalore-560032
Customer's Reference	:	BBMP/ET/BTP/WI/eM/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07/03/19
Customer ID	:	Culvert Top Slab Concrete
Sample Type/Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959, Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	151.96 X 150.09 X 151.63	22944	8.582	345.0	22.8	22.8
2	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	151.66 X 151.99 X 149.83	23059	8.407	507.0	22.0	
3	Culvert Top Slab Concrete	M25	05/03/2019	12/03/2019	150.11 X 151.12 X 150.22	22959	8.875	511.0	22.3	

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

Format No: QC/F/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 Date: 22/03/2019
Addressed	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Location	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office to Ward No 11 (Kempegowda Ward) in Vidyaranyapura Sub Division.
Agency	:	Sri. Ramesh, NO 17, 4th Cross, Sunrise Colony, Chikkanayakanahalli, R.T. Nagara Po, Bangalore-560032
Customer's Reference	:	BBMP/EE/RDP/WO-91/2017-18
Source of Sample	:	Sample Supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/ Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959/ Methods of Tests for Strength of Concrete Cl: 5
Date of test	:	22/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(Kg)	(KN)	(N/mm²)	(N/mm²)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.06 X 149.80 X 149.8	22492	8.376	617.8	27.5	27.1
2	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.36 X 151.54 X 151.45	22789	8.686	601.3	26.4	
3	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	50.04 X 49.21 X 50.82	22393	8.374	629.8	28.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP/2019-02-21-50 Date: 22/03/2019

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Extension of Major Culvert at Singapura Main Road Near Ward Office to Ward No 11 (Kaverinagar) at Vidyaranyapura Sub Division.

Agency : Sri.U Ramesh, N0.12, 4th Cross, Sunrise Colony, Chikkasandra(Hal), RT.Nagar(P), Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/01/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 'Methods of Tests for Strength of Concrete CL5

Date of test : 22/03/2019

Sl. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq mm)	(kg)	(KN)	(N/mm²)	(N/mm²)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.73 X 150.78 X 151.43	22726	8.476	[illegible]	[illegible]	[illegible]
2	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	149.03 X 149.25 X 151.8	22264	8.686	[illegible]	[illegible]	[illegible]
3	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	149.65 X 149.85 X 151.71	22431	8.374	[illegible]	[illegible]	[illegible]

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY STRUCTURAL
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Format No: CPTI-01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 Date: 22/03/2019
To,	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore.
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No 13 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Smt.C.Ramesh, No:12, 4th Cross, Sunrise Colony, Chelluru Kamalnath, R.T.Nagara (P), Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete C.S
Date of test	:	22/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.00 X 149.04 X 151.04	22520	8.476	01 - 2	4[illegible]	
2	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.05 X 151.92 X 151.28	22797	8.600	1 [illegible]	20[illegible]	4[illegible]
3	Culvert Bottom Slab Concrete	M25	22/02/2019	22/03/2019	150.11 X 150.02 X 149.98	22551	8.474	0[illegible]	2[illegible]	

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Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50 **Date: 26/02/2019**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Banglore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office in Ward No:11 (Kkevenpanagar) in Vidyaranyapura Sub Division
Agency	:	Sri U Ramesh, No:12, 4th Cross, Saraswathi Colony, Chikkanayakanahalli, R.T.Nagara (P), Bengluru-560032.
Customer's Reference	:	BBMP/EE/011/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	Is: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M25	26/02/2019	26/03/2019	149.86 - X 150.55 - X 148.29	22381	8.176	619.4	27.7	27.2
2	Culvert Side Wall Concrete	M25	26/02/2019	26/03/2019	149.61 - X 149.39 - X 149.09	22335	8,606	581.5	26.1	
3	Culvert Side Wall Concrete	M25	26/02/2019	26/03/2019	150.31 - X 151.12 - X 149.16	22727	8,374	658.6	29.0	

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Format No: CPTT/1

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-50
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Extension of Major Culvert at Singapura Main Road Near Ward Office at Ward No 11 (Kuvempunagar) in Vidyaranyapura Sub Division
Agency	:	Sri.T. Ramesh, No.12, 4th Cross, Sunrise Colony, Yeshwanthapura, B.T.Nagara (P), Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/91/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28/02/19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Characteristic Strength
Reference to BIS codes	:	IS: 516 - 1959, Methods of Tests for Strength of Concrete
Date of test	:	26/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm²)	(N/mm²)
1	Culvert Side Wall Concrete	M25	28/02/2019	26/03/2019	150.70 X 149.95 X 151.80	22747	8.176	632.1	27.7	
2	Culvert Side Wall Concrete	M25	28/02/2019	26/03/2019	150.45 X 151.90 X 151.24	22997	8.386	655.7	28.5	28.1
3	Culvert Side Wall Concrete	M25	28/02/2019	26/03/2019	150.74 X 151.10 X 151.21	22792	8.374	640.3	28.1	

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